

Heat: 820052  
Your PO: P0242709-01

Order: 3138908 Line: 3  
Item: 3/4" STD 0.113" PIPE SMLS A106 GR B PE SRL



**Inspection Certificate**  
(According to DIN EN 10204.3.1)  
Nº.: 0030058036 / 00  
Sheet: 1 / 3

Customer Order No/Item: 21009720 - PO 113718

Country: USA

Material Number: 415526  
Work Order: 615918/30  
Customer Order: 21009720 - PO 113718

Material Supply Authorization: 21009720 - PO 113718  
Inspection: Vallourec Soluções Tubulares do Brasil S.A.

**DESCRIPTION OF PRODUCTS:** SEAMLESS STEEL PIPE COLD DRAWN , PLAIN ENDS , NORMALIZED  
**DIMENSIONS:** 1.050" X 0.113" **GRADE:** C # B # B  
**STANDARD:** ASTM A 106 - 19 A ASTM A 530 - 18  
**IN ACCORDANCE ALSO TO THE STANDARDS:** ASTM A 53 - 20 # ASME SA-106 - 19 ASME SA 530 - 19 # ASME SA-53 - 19  
**SURFACE PROTECTION: EXTERNAL:** OILED **PIPE ENDS PROTECTOR:** NO PROTECTOR  
**TOLERANCES: OUTSIDE DIAMETER (PIPE BODY):** -0.02 " / +0.02 " **WALL THICKNESS:** -0.01 " / +0.39 "  
**LENGTH:** RANDOM 18.0 FT - 24.0 FT  
**STANDARD MARKING:** Paint stenciled in the pipe body: MANUFACTURER ASTM/ASME A/SA-106 B C NDE SCH 040 1.050 X 0.113 HEAT NUMBER ASTM/ASME A/SA-53 B S  
**SHIPPING MARKING:** TEXAS PIPE \* P.O.302119/ITEM 3 \* VUSA 21009720 \* HOUSTON \* MADE IN BRAZIL 615918/30

Heat	Colector Lot	Pieces
820052	591302	72
	591303	306
	591304	162
	591305	173
	591762	84
820053	591301	283
	596441	61
	5964433	35
<b>Total</b>		<b>1176</b>

**THE PRODUCT IS SATISFACTORY IN THE FOLLOWING TESTS / INSPECTIONS:** DIMENSIONAL # VISUAL # BENDING TEST # EDDY CURRENT TEST : EDDY-CURRENT ACC. ASTM E 309 #



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**Chemical Composition (%)**

CE1: Cr + Cu + Mo + Ni + V

Process: Electric Arc Furnace (EAF), heats fully killed

	C	Mn	P	S	Si	Ni	Cr	Mo	Al	Cu	V	Nb	B	Ti	N	Ca	CE1
<b>Product Analysis</b>																	
Min		0.29			0.10												
Max	0.220	1.20	0.020	0.0300		0.40	0.40	0.150		0.40	0.060	0.020	0.0010				1.00
Min		0.29			0.10												
Max	0.220	1.20	0.020	0.0300		0.40	0.40	0.150		0.40	0.060	0.020	0.0010				1.00
<b>Heat Control Lot</b>																	
820052 030003770236	0.190	1.07	0.011	0.0010	0.27	0.04	0.03	0.010	0.030	0.04	0.001	0.001	0.0001	0.002	0.0080	0.0012	0.12
Check 1	0.175	1.07	0.011	0.0014	0.26	0.04	0.05	0.008	0.028	0.04	0.004	0.000	0.0000	0.001	0.0071	0.0017	0.14
Check 2	0.182	1.10	0.011	0.0011	0.27	0.04	0.04	0.008	0.033	0.04	0.004	0.000	0.0000	0.001	0.0097	0.0020	0.13
820053 030003770237	0.190	1.07	0.011	0.0010	0.27	0.04	0.03	0.010	0.030	0.04	0.001	0.001	0.0001	0.002	0.0080	0.0012	0.12
Check 1	0.177	1.10	0.011	0.0012	0.27	0.03	0.04	0.008	0.029	0.04	0.000	0.003	0.0000	0.002	0.0080	0.0013	0.12
Check 2	0.181	1.10	0.010	0.0009	0.27	0.04	0.04	0.008	0.032	0.04	0.004	0.002	0.0000	0.001	0.0112	0.0020	0.13

**CE: Combined Elements;**

**Tensile Test**

Specimen Direction: Longitudinal  
Method: Elong. Total Under Load 0.50 %

Temperature: Room Temperature

Wall Thickness: 0.113"

Gauge Length: L0=2"

Heat	Control Lot	Type of Specimen	Area (Sqin)	YS (PSI)	TS (PSI)	E (%)	Required:	
							Min	Max
820052	030003770236		0.3	48200	74300	44.0		
	030003770238		0.3	52500	75600	45.0		
	030003770239		0.3	50600	74100	46.0		
			0.3	47100	71400	44.0		
			0.3	48300	72800	44.0		
	030003770240		0.3	48700	74400	45.0		
820053	030003770237		0.3	46400	71900	43.0		
	030003796994	FULL SECTION	0.3	47300	71900	46.0		
	030003796995	FULL SECTION	0.3	47300	73000	43.0		

YS-Yield Strength; TS-Tensile Strength; E-Elongation;



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**Hardness Test**  
Scale: HV10

Required: Min  
Max 246.0

Heat	Control Lot		
820052	030003770236	5913	168.0
	030003770238	5913	160.0
	030003770239	5913	148.0
		5917	149.0
		5927	150.0
030003770240	5913	139.0	
820053	030003770237	5913	164.0
	030003796994	5964	142.0
	030003796995	5964	154.0

**Remarks:**  
NACE MR-01-75/ISO15156 (<>&<) MR0103 CERTIFIED

We hereby certify that this product has been manufactured and examined in accordance with all requirements of the standards and specifications and all the results are found to be satisfactory. This testimonial and certificate respectively is recorded by a computer system and is valid without signature. Alteration or use for others products are regarded as falsification of documents and will be subject to criminal jurisdiction.

QUALITY CONTROL DEPARTMENT  
FAX: (55-31) 3328-2987  
e-mail:assistencia.autoind-bra@vallourec.com

DATE  
09.01.2022

MIRELLE OLIVEIRA SPINDOLA - CREA-MG 173749  
TECHNICAL RESPONSIBLE